

Highly crystalline propylene homopolymers

5 Abstract

Propylene homopolymers, wherein, in their separation according to tacticity by first dissolving the polymers in boiling xylene, then cooling the solution to 25°C at a cooling rate of 10°C/h and 10 then, with ascending temperature, separating the propylene homopolymers into fractions of different tacticity, either one or more of the conditions that

- 15 i) the fraction of propylene homopolymers which remains undissolved on heating the cooled propylene homopolymer solution to 112°C is greater than 20 % by weight or
- 20 ii) the fraction of propylene homopolymers which remains undissolved on heating the cooled propylene homopolymer solution to 117°C is greater than 8 % by weight or
- 25 iii) the fraction of propylene homopolymers which remains undissolved on heating the cooled propylene homopolymer solution to 122°C is greater than 1 % by weight,

are satisfied.

30

35

40

45